

Commonwealth of Massachusetts  
Department of Telecommunications and Energy  
Fitchburg Gas and Electric Light Company  
Docket Nos. D.T.E. 02-24 and D.T.E. 02-25  
Responses to the Department's Second Set of Information Requests

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**Request No. DTE 2-24:**

Refer to Exhibit FGE-MHC-1 (Electric) at 19. Please provide a full explanation of the failure at the River Street substation during 2001. The Company's response should include any reports provided to the Department associated with this failure.

**Response:**

River Street substation experienced a failure on June 25, 2001 when a squirrel caused a fault on the 13.8kV bus. The fault occurred on a recloser bypass switch located outside the transformer differential zone of protection. The transformer high side overcurrent relay operated correctly, but the 69 kV high-side breaker failed to operate. It was later determined that the trip coil failed, and did not trip the breaker. As a result, the transformer was subjected to an extended through-fault, ultimately resulting in failure. The 69kV breakers at Flagg Pond substation operated to clear the fault when the transformer failed. A copy of the River St. substation failure report is included as Common Discovery<sup>1</sup> Attachment DTE 2-24.

Also attached is a copy of the notification to the Department associated with this failure. This is included as Common Discovery Attachment 2 DTE 2-24. It should be noted that this failure occurred prior to the implementation of the new Outage Reporting Protocol (ORP).

**Person Responsible:** Mark H. Collin

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<sup>1</sup> Common Discovery is any attachment that is identical for D.T.E. 02-24 and D.T.E. 02-25.